

Name: \_\_\_\_\_

### at1121exam\_practice: Radicals and Squares (v610)

#### Question 1

Simplify the radical expressions.

$$\sqrt{28}$$

$$\sqrt{8}$$

$$\sqrt{45}$$

#### Question 2

Find all solutions to the equation below:

$$\frac{(x - 7)^2 - 6}{2} = 15$$

**Question 3**

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 16x = -55$$

**Question 4**

A quadratic polynomial function is shown below in standard form.

$$y = 4x^2 - 40x + 91$$

Express the function in **vertex form** and identify the **location** of the vertex.